

PCT

RAW SEQUENCE LISTING DATE: 07/07/2004
PATENT APPLICATION: US/10/088,703A TIME: 11:15:49

Input Set : A:\Sequence Listing for I0308.70002US00.txt

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3 <110> APPLICANT: Isis Innovation Limited
         Beth Israel Deaconess Medical Center, Inc.
         Donnadieu, Emmanuel
 5
         Jouvin, Marie-Helene
 6
         Kinet, Jean-Pierre
 7
         Cookson, William
        Moffatt, Miriam Fleur
11 <120> TITLE OF INVENTION: MODULATION OF IGE RECEPTOR CELL SURFACE EXPRESSION
13 <130> FILE REFERENCE: I00308/70002
15 <140> CURRENT APPLICATION NUMBER: US 10/088,703A
16 <141> CURRENT FILING DATE: 2002-03-21
18 <150> PRIOR APPLICATION NUMBER: PCT/US00/25877
19 <151> PRIOR FILING DATE: 2000-09-21
21 <150> PRIOR APPLICATION NUMBER: US 60/154,924
22 <151> PRIOR FILING DATE: 1999-09-21
24 <160> NUMBER OF SEQ ID NOS: 9
26 <170> SOFTWARE: PatentIn version 3.0
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40
                                                   Met Asp Thr Glu
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42 agt aat agg aga gca aat ctt gct ctc cca cag gag cct tcc agt gtg
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43 Ser Asn Arg Arg Ala Asn Leu Ala Leu Pro Gln Glu Pro Ser Ser Val
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45 cct gca ttt gaa gtc ttg gaa ata tct ccc cag gaa gta tct tca ggc
46 Pro Ala Phe Glu Val Leu Glu Ile Ser Pro Gln Glu Val Ser Ser Gly
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48 aga cta ttg aag tcg gcc tca tcc cca cca ctg cat aca tgg ctg aca
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49 Arg Leu Leu Lys Ser Ala Ser Ser Pro Pro Leu His Thr Trp Leu Thr
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51 gtt ttg aaa aaa gag cag gag ttc ctg ggg gta aca caa att ctg act
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52 Val Leu Lys Lys Glu Gln Glu Phe Leu Gly Val Thr Gln Ile Leu Thr
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54 gct atg ata tgc ctt tgt ttt gga aca gtt gtc tgc tct gta ctt gat
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55 Ala Met Ile Cys Leu Cys Phe Gly Thr Val Val Cys Ser Val Leu Asp
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Input Set : A:\Sequence Listing for I0308.70002US00.txt

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58	Ile	Ser	His	Ile	Glu	Gly	Asp	Ile	Phe	Ser	Ser	Phe	Lys	Ala	Gly	Tyr	
59	85					90					95					100	
60	cca	ttc	tgg	gga	gcc	ata	ttt	ttt	tct	att	tct	gga	atg	ttg	tca	att	450
61	Pro	Phe	Trp	Gly	Ala	Ile	Phe	Phe	Ser	Ile	Ser	Gly	Met	Leu	Ser	Ile	
62					105					110					115		
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64	Ile	Ser	Glu	Arg	Arg	Asn	Ala	Thr	Tyr	Leu	Val	Arg	Gly	Ser	Leu	Gly	
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67	Ala	Asn	Thr	Ala	Ser	Ser	Ile	Ala	Gly	Gly	Thr	Gly	Ile	Thr	Ile	Leu	
68			135					140					145				
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71		150					155					160					,
72	cag	aaa	ttt	ttt	gag	acc	aag	tgc	ttt	atg	gct	tcc	ttt	tcc	act	gaa	642
73	Gln	Lys	Phe	Phe	Glu	Thr	Lys	Cys	Phe	Met	Ala	Ser	Phe	Ser	Thr	Glu	
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75	att	gta	gtg	atg	atg	ctg	ttt	ctc	acc	att	ctg	gga	ctt	ggt	agt	gct	690
76	Ile	Val	Val	Met	Met	Leu	Phe	Leu	Thr	Ile	Leu	Gly	Leu	Gly	Ser	Ala	
77					185					190					195		
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82	Val	Pro	Glu	Asp	Arg	Val	Tyr	Glu	Glu	Leu	Asn	Ile	Tyr	Ser	Ala	Thr	
83			215					220					225				
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		-								-			_		_	gggcat	1247
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	_	_	-		_	-										ataaag	1607
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110 atqacatcca atacatqaqt tctqqtaaaq ataaaatttg atacacggtt tggtgtcatt
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112 gaagtgaage taagetaaac tteacatgee tataattgga gggaaaaact aaggataaaa
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113 tctagcctag aagatacaat aattagtcat aaacatgcat tgtgaaactg tagagagcag
                                                                       2447
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114 gtagcccaaa atagagaaag attagataaa gagaaaataa gtatccatca gagacagtat
115 ctctaggctt gggcaagaga aaagtccaca gtgataagca actccaccta aggcatgaat
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116 atgcggcaga gaaaacagca atagtgaatg aatgcaaaag gtgctgagca aattccacac
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117 atgagtattg tgcatgagta aatgaataaa acatttgcaa agacctttag agaaagagaa
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118 tgggagcata tgtgcgaaat aagatagttg attatgaata gaaggtagtg aagaaaagca
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120 tataagagtc ctacagatgg actgaaaaaa atcagtctga gagtattagt cacaattaat
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122 atttccctag attgtgaaag tgatcacgac aatcacacaa caaataatta agtgacttgg
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123 tatgctttat ttaattgtag ggcctgaggt tttccattct catttttcta aaatacaatt
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124 ttgtttctcc aaatttgaca gcagaataaa aaccctaccc tttcactgtg tatcatgcta
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125 aqctqcatct ctactcttga tcatctgtag gtattaatca catcacttcc atggcatgga
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126 tqttcacata cagactetta accetggttt accaggacet ctaggagtgg atccaateta
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127 tatctttaca qttqtataqt atatqatatc tcttttattt cactcaattt atattttcat
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128 cattgactac atatttctta tacacaacac acaatttatg aattttttct caagatcatt
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132 tettqctcca taactactct atcccacgat gcagtattgt atcattaatt attagtgtgc
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133 ttgtgacctc cttatgtatt ctcaattacc tgtatttgtg caataaattg gaataatgta
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Input Set : A:\Sequence Listing for I0308.70002US00.txt

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185 186	aac	ccati	EQUE ttc a	NCE: aacto	3 geeta	at to	cagag	gcato	-			aa a	atg 9	gac a	aca g	gaa	60 114
185 186 187	aac	ccati	EQUE ttc a	NCE: aacto	3 geeta	at to	cagag	gcato	-			aa a	atg g Met 1	gac a	_	gaa	
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185 186 187 188 189	aacc taat agt	ccati taata aat	EQUEI ttc a att d	NCE: aacto cttta aga	3 gccta attco gca	at to ct go aat	cagaç gacaç	gcato gctco	g gti	cca	gaaa cag	aa a ! gag	atg q Met 1 l cct	gac a Asp '	aca g Thr (	gaa Glu gtg	
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185 186 187 188 189 190	aacc taat agt Ser 5	aat Asn	EQUEI ttc a att d agg Arg	NCE: aacto cttta aga Arg	3 geeta atted gea Ala	at to ct go aat Asn 10	cagaq gacaq ctt Leu	gcato gctco gct Ala	g gtt ctc Leu	cca Pro	cag Gln 15	aa a l gag Glu	etg of Met A L cct Pro	gac a Asp ' tcc Ser	aca g Thr ( agt Ser	gaa Glu gtg Val 20	114
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185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201	agt Ser 5 cct Pro aga Arg gtt Val	aat Asn gca Ala cta Leu ttg Leu atg	agg Arg ttt Phe ttg Leu aaa Lys ata	aga Arg gaa Glu aag Lys 40 aaa Lys	gca gca Ala gtc Val 25 tcg Ser gag Glu	at to at go aat Asn 10 ttg Leu gcc Ala cag Gln	ctt Leu gaa Glu tca Ser gag Glu	gcate gctco gct Ala ata Ile tcc Ser ttc Phe 60 gga	ctc Leu tct Ser cca Pro 45 ctg Leu	cca Pro ccc Pro 30 cca Pro ggg Gly	cag Gln 15 cag Gln ctg Leu gta Val	gag Glu gaa Glu cat His aca Thr	atg general section of the section o	tcc Ser tct Ser tgg Trp 50 att Ile	aca g Thr ( agt Ser tca Ser 35 ctg Leu ctg	gaa Glu gtg Val 20 ggc Gly aca Thr act Thr	114 162 210 258 306
185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203	agt Ser 5 Cct Pro aga Arg gtt Val gct Ala	aat Asn gca Ala cta Leu ttg Leu atg Met 70	agg Arg ttt Phe ttg Leu aaa Lys 55 ata Ile	aga Arg gaa Glu aag Lys tgc Cys	gca gca Ala gtc Val 25 tcg Ser gag Glu ctt Leu	at to get aat Asn 10 ttg Leu gcc Ala cag Gln tgt Cys	cagag gacag ctt Leu gaa Glu tca Ser gag Glu ttt Phe 75	gcate gctcs gct Ala ata Ile tcc Ser ttc Phe 60 gga Gly	ctc Leu tct Ser cca Pro 45 ctg Leu aca Thr	cca Pro ccc Pro 30 cca Pro ggg Gly gtt Val	cag Gln 15 cag Gln ctg Leu gta Val	gag Glu gaa Glu cat His aca Thr	atg of the series at the serie	tcc Ser tct Ser tgg Trp 50 att Ile gta Val	aca g Thr ( agt Ser tca Ser 35 ctg Leu ctg	gaa Glu gtg Val 20 ggc Gly aca Thr act Thr	114 162 210 258 306
185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	agt ser 5 cct Pro aga Arg gtt Val gct Ala	aat Asn gca Ala cta Leu ttg Leu atg Met 70 tca	agg Arg ttt Phe ttg Leu aaa Lys 55 ata Ile cac	aga Arg gaa Glu aag Lys tgc Cys	gca Ala gtc Val 25 tcg Ser gag Glu ctt Leu	at to get aat Asn 10 ttg Leu gcc Ala cag Gln tgt Cys	cagag gacag ctt Leu gaa Glu tca Ser gag Glu ttt Phe 75 gac	gcate gctcs gct Ala ata Ile tcc Ser ttc Phe 60 gga Gly att	ctc Leu tct Ser cca Pro 45 ctg Leu aca Thr	cca Pro ccc Pro 30 cca Pro ggg Gly gtt Val	cag Gln 15 cag Gln ctg Leu gta Val gtc Val	gag Glu gaa Glu cat His aca Thr tgc Cys 80 ttt	atg gate atg gate atg gate atg gate atg gate atgains and atgains at a gate at a ga	tcc Ser tct Ser tgg Trp 50 att Ile gta Val	aca g Thr ( agt Ser tca Ser 35 ctg Leu ctg Leu ctt	gaa Glu gtg Val 20 ggc Gly aca Thr act Thr gat Asp	114 162 210 258 306
185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	agt ser 5 cct Pro aga Arg gtt Val gct Ala att Ile	aat Asn gca Ala cta Leu ttg Leu atg Met 70 tca	agg Arg ttt Phe ttg Leu aaa Lys 55 ata Ile cac	aga Arg gaa Glu aag Lys tgc Cys	gca Ala gtc Val 25 tcg Ser gag Glu ctt Leu	at to get aat Asn 10 ttg Leu gcc Ala cag Gln tgt Cys	cagag gacag ctt Leu gaa Glu tca Ser gag Glu ttt Phe 75 gac	gcate gctcs gct Ala ata Ile tcc Ser ttc Phe 60 gga Gly att	ctc Leu tct Ser cca Pro 45 ctg Leu aca Thr	cca Pro ccc Pro 30 cca Pro ggg Gly gtt Val	cag Gln 15 cag Gln ctg Leu gta Val gtc Val	gag Glu gaa Glu cat His aca Thr tgc Cys 80 ttt	atg gate atg gate atg gate atg gate atg gate atgains and atgains at a gate at a ga	tcc Ser tct Ser tgg Trp 50 att Ile gta Val	aca g Thr ( agt Ser tca Ser 35 ctg Leu ctg Leu ctt Leu	gaa Glu gtg Val 20 ggc Gly aca Thr act Thr gat Asp	114 162 210 258 306
185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206	agt Ser 5 cct Pro aga Arg gtt Val gct Ala att Ile 85	aat Asn gca Ala cta Leu ttg Met 70 tca Ser	agg Arg ttt Phe ttg Leu aaa Lys ata Ile cac His	aga Arg gaa Glu aag Lys 40 aaa Lys tgc Cys att Ile	gca gca Ala gtc Val 25 tcg Ser gag Glu ctt Leu gag	at to get aat Asn 10 ttg Leu gcc Ala cag Gln tgt Cys gga Gly 90	cagagagacagacagacagacagacagacagacagacag	gcate gctcg gct Ala ata Ile tcc Ser ttc Phe 60 gga Gly att	ctc Leu tct Ser cca Pro 45 ctg Leu aca Thr	cca Pro ccc Pro 30 cca Pro ggg Gly gtt Val tca Ser	cag Gln 15 cag Gln ctg Leu gta Val gtc Val tca Ser 95	gag Glu gaa Glu cat His aca Thr tgc Cys 80 ttt Phe	atg of the second secon	tcc Ser tct Ser tgg Trp 50 att Ile gta Val gca Ala	aca g Thr ( agt Ser tca Ser 35 ctg Leu ctg Leu ctt Leu	gaa Glu  gtg Val 20 ggc Gly  aca Thr  act Thr  gat Asp  tat Tyr 100	114 162 210 258 306

Input Set : A:\Sequence Listing for I0308.70002US00.txt

	_	_,	_					_,	_		_			_	_		
	Pro	Phe	Trp	GIŸ		He	Phe	Phe	Ser		Ser	GIY	Met	Leu	Ser	He	
209					105					110					115		
															ctg		498
	He	Ser	Glu	_	Arg	Asn	Ala	Thr	_	Leu	Val	Arg	GIY		Leu	GLY	
212				120					125					130	_		
															atc		546
	Ala	Asn		Ala	Ser	Ser	Ile		Gly	Gly	Thr	Gly		Thr	Ile	Leu	
215			135					140					145				
															agt		594
	Ile		Asn	Leu	Lys	Lys	Ser	Leu	Ala	Tyr	Ile		Ile	His	Ser	Cys	
218		150					155					160					
															act		642
220	Gln	Lys	Phe	Phe	Glu	Thr	Lys	Cys	Phe	Met	Ala	Ser	Phe	Ser	Thr	Val	
	165					170					175					180	
222	tgt	att	ttt	ttt	tgt	gtg	gga	aga	cta	aga	ttc	tgg	gtc	cta	atg	taa	690
223	Cys	Ile	Phe	Phe	Cys	Val	Gly	Arg	Leu	Arg	Phe	Trp	Val	Leu	Met		
224					185					190					195		
225	gtaa	agaag	gcc	ctcti	tctc	ct g	ttcca	atgaa	a cad	ccato	cctt	ttc	tgtaa	act	tctat	tacac	750
226	agta	atagi	tgg '	ttct	gtaag	gt t	caca	cage	cag	gggag	gatg	ctg	gctg	ccc .	actc	cctca	810
227	acco	cagg	caa .	attc	ctcg	<b>3</b> 9 9	ttaaa	agtta	a tct	tacto	gcaa	gtga	acgat	tct	ctgg	gttttt	870
228	ctgt	tgcct	tgt (	gttt	gtgt	gt g	tgtgt	gtgt	gt	gtgtg	gtgt	gtgt	tatgt	tgt	cacti	taaaa	930
229	ggad	ctggi	tca 🤄	gatg	gtag	gg a	gatga	aaaa	agg	gagat	gct	ataa	agaaa	aat	aaact	tttgg	990
230	ggc	gaata	acc a	aatgi	tgact	tc t	tttt	gtttç	g tca	atttç	gttg	ctg	ttcaa	ata	ggaaa	attgta	1050
231	gtga	atgai	tgc :	tgtti	tctca	ac c	attci	ggga	a ctt	tggta	agtg	ctg	tgtca	act	cacaa	atctgt	1110
232	ggag	gctg	ggg (	aagaa	actca	aa a	ggaaa	acaag	g gtt	cca	gagg	atc	gtgti	tta	tgaag	gaatta	1170
233	aaca	atata	att	caget	tacti	ta c	agtga	agtto	g gaa	agaco	ccag	ggg	aaat	gtc	tcct	ccatt	1230
																aggcca	1290
	_		_				_					_				tttac	1350
236	atta	agati	ta	ttcg	cctga	at a	agaat	attt	tgt:	ttct	gct	gcti	tctgt	tcc .	accti	taatat	1410
		-		_	_		-		_		-	-	-			accaca	1470
				-				-				-				aactg	1530
					_				-	-	-			_		tgata	1590
				_	_	-				_	_			_	_	ggcatg	1650
			_	_						_						acttac	1710
		_						-		-				_		gccaag	1770
						_					_					gacatg	1830
		_			_		_		_	_		-	-			tgtct	1890
				_	_			-		_						cacaaa	1950
					_					_	_		_			aaagt	2010
	_	_	_		_	-						-				ggtaga	2070
																taagc	2130
																gggtcg	2190
																atcacg	2250
																aaata	2310
																ggagga	2370
																gcacc	2430
																aaaaaa	2490
																	2550
																attaag	2610
250		Jacci		-ggcl	Luga	4L L	999	gage	. cae	, ayy	jaaa	Lyca	agece	ıca (	3033	gcctga	2010

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/088,703A TIME: 11:15:50

DATE: 07/07/2004

Input Set : A:\Sequence Listing for I0308.70002US00.txt